



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name		
P0040263	MES002-VC	1	1	Net 30	M17-4-H1150-R0.750	17-4 SS Round Bar H1150 0.75" dia. : MATERIAL: 17-4 PH CONDITION H1150 receive ft				12	7/10/2018	12		S089914	Stock	7/6/2018	\$ 27.65 / ft	3		\$331.80	Metaux Solutions		
		2			M17-4-H900-R3.750	17-4 SS Round Bar Ø3.75" : MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564				4		4		S089915	Stock	7/6/2018	\$ 431.40 / ft	3		\$1,725.60	Metaux Solutions		
		3			M303R5.000	303 Round Bar Ø5.000 : MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE) SPECIFICATION: ASTM A552				3		3		S089916	Stock	7/6/2018	\$ 438.40 / ft	3		\$1,315.20	Metaux Solutions		
		4			M6061T6B3.000X5.000	6061T6 Bar 3.000 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				6		6		S089917	Stock	7/6/2018	\$ 83.60 / ft	3		\$501.60	Metaux Solutions		
Total:											25		25									\$2,962.72	

Plex 7/9/2018 8:12 AM dart.Tollis.Andrew

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Shipping Order

05/07/2018

Order : 136259
Reference : 040263
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

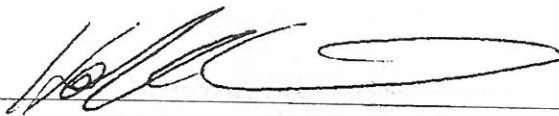
Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SR34174	17-4PH ROU .750 DIA COND. H1150 1 X 12' R/L ***** HT, 9sh0212-ge1 AT	12	12	0
SR334174	ST 17-4PH ROU 3.750 DIA 1 X 48" ***** HT, 746h AT	4	4	0
SR53	303 ROU 5.000 DIA 1 X 36" ***** HT, 754f AT	3	3	0
AF35	ALU FLA 3.000" X 5" 6061-T6 1 X 72" HT, 201811156 AT	6	6	0

SHIP JOURNEY COLLECT
JP

Shipping :
Package No :
Merchandise Received:

Ref. :





Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040263**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO040263

PO Date: 6/20/18

Due Date: 6/29/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: bid 27864

E-MAILED
JUN 20 2018

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 ✓ At		M17-4-H1150-R0.750		17-4 SS Round Bar H1150 0.75" dia. : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	6/29/18	12 ft ✓	0 ft 12 ft	12 ft	\$27.65/ft	\$331.80
2 ✓ At		M17-4-H900-R3.750		17-4 SS Round Bar Ø3.75" : MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564	Firmed	6/29/18	4 ft ✓	0 ft 4 ft	4 ft	\$431.40/ft	\$1,725.60
3 ✓ At		M303R5.000		303 Round Bar Ø5.000 : MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE) SPECIFICATION: ASTM A582	Firmed	6/29/18	3 ft ✓	0 ft 3 ft	3 ft	\$438.40/ft	\$1,315.20

Plex 6/20/18 10:23 AM dart.lavoie.chantal

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M6061T6B3.000X5.000		6061T6 Bar 3.000 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/29/18	6 ft	0 ft	6 ft	\$83.60/ft	\$501.60
Grand Total:											\$3,874.20

Order Notes

Procurement Quality Clauses
 A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/20/18 10:23 AM dart.lavoie.chantal

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel. : 450 641-3330

Bid 12/06/2018 27864

Sales Rep. : JEROME PRIMEAU
Reference : chantal
Expiration Date : 10/09/2018

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N				
SR34174	17-4PH ROU .750 DIA cond. h1150 1 x 12' r/l	12	27.65	331.80	A
SR312174	17-4PH ROU 3.500 DIA cond. 2 x 12' r/l	24	222.25	5 334.00	A
SR4174PH	17-4 PH STAIN ROU 4.00" DIA cond. h1150 1 x 72"	6	365.60	2 193.60	A
SR334174	ST 17-4PH ROU 3.750 DIA cond. h900 1 x 48"	4	431.40	1 725.60	A
SR53	303 ROU 5.000 DIA 1 x 36"	3	438.40	1 315.20	A
SR13	303 ROU 1.000 DIA 1 x 12' r/l	12	18.30	219.60	A
SR3344	304 ROU 3.750 DIA 1 x 36"	3	285.05	855.15	A
DT7818	MS TUB .875 X .125 SMLS 5 x 17/24' r/l	100	4.15	415.00	A
MR241H	4140 HTSR ROU 2.000 DIA 1 x 36" no 4130	3	25.00	75.00	A

*** Continued on Next Page ***

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel. : 450 641-3330

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DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
F14301	KETOS GFS .250 X 3 FL 36 CAN 1 pce	1	101.30	101.30	A
MP1241H	4140 HTSR PLATE TFHT .500" 1 x 3.5" x 72"	41	4.50	184.50	A
SP121272	304 PLT .500 X 12 X 72 1 PCE	1	538.45	538.45	A
AF2144	6061-T6 FLAT 2.25 X 4 1 X 12'	12	53.05	636.60	A
AF212412	ALU FLA 2.5" X 4.5" 6061 T-6 1 X 72"	6	106.10	636.60	A
AF114212	ALU FLA 1.250 X 2.500 6061-T6 1 X 12'	12	18.65	223.80	A
AF35	ALU FLA 3.000" X 5" 6061-T6 1 X 72"	6	83.60	501.60	A
AP13410	6061-T6 PLT 1.75 X 10 X 144 2 PCES	2	1342.80	2 685.60	A
AP1814475	7075-T6 PLT 1 X 8 X 144 1 X 12'	1	2038.45	2 038.45	A
SF1142174	17-4PH FLAT 1.250 X 2.00 2 X 12' R/L	24	65.00	1 560.00	A
MR3841H	4140 HTSR .375" DIA 2 X 12'	24	5.85	140.40	A

*** Continued on Next Page ***

Bid

12/06/2018

27864

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 *Tel.* : 450 641-3330

Sales Rep. : JEROME PRIMEAU
Reference : chantal
Expiration Date : 10/09/2018

Customer: 6323336

Ship To :

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Price</i>	<i>Total</i>	<i>Tx</i>
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5/7 DAYS

Subtotal 21 712.25

A) Regist :

HST : 2 822.59

Total : 24 534.84

CERTIFICATE OF TEST

CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
4-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44997-J

Invoice Number
T381418

PART NUMBER/NUMÉRO DE PIÈCE

510437

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 17-4 CF BAR COND H1150 ASTM A564
3/4 RD X 12' R/L Line Total: 18 LB
HEAT: 9SH0212-GE1 ITEM: 510437

Specifications:

AMS 5643 U	ASTM A564 T630 13	ASME SA564 T630 13
ASTM A370 16	ASTM A388 16A	ASTM A484 16
AMS 2303 F	EN 10204 3.1	

CHEMICAL ANALYSIS

C	SI	MN	P	S	NI	CR	MO
0.01	0.37	0.57	0.02	0.01	4.70	15.27	0.10
CU	CO	NBTA	N	NB			
3.30	0.051	0.25	0.031	0.24			

RCPT: R428685

COUNTRY OF ORIGIN : TAIWAN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RC
COND H1150	137.0	152.0	17.5	68.0	30

GRAIN SIZE : 8 -

IMPACT TEST

UOM ft-lbs

TYPE	TEMP	ORNT	SMPL #1	#2	#3	AVG	%	LAT	DESCRIPTION
CHARPY	70 F	LONG	155.0	162.0	159.0	158.7			

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The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
4-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44997-J
PART NUMBER/NUMÉRO DE PIÈCE
510437

EARLE M JORGENSEN CAN DIV RMCL
1255, AVE LAPLACE
VILLE DE LAVAL QC H7C 2N6

Invoice Number
T381418

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 CF BAR COND H1150
3/4 RD X 12' R/L
HEAT: 9SH0212-GE1 ITEM: 510437

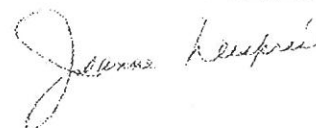
ASTM A564
Line Total: 18 LB

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK
MICRO1:
MICRO CONTAINS NO MORE THAN 5% FERRITE

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17.4 PH S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564

PART NUMBER: M17-4-1 HHHH-R X XXX WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X.XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
4.000" DIAMETER BAR MIN YTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E(17-728)

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.03.14
B	REFORMAT DWG. S17400 TYPE 630 ADDED TO PURCHASE MATERIAL (ZIN DB-1), ADD A564 SPEC (CS-1), REF PAR 08-020A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	NO	NO	
DRAWN	NO	NO	
CHECKED	CP	CP	
MFG. APPR.	RA	RA	
APPROVED	WM	WM	
DE APPR.	CP	CP	
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
TITLE 17-4 SS ROUND BAR			
REV. C SHEET 1 OF 1			
SCALE NTS			
COPYRIGHT © 2005 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H1150-R0.750
 DATE: 18/07/09

PO / BATCH NO.: P0040263/5089914

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	AMS 5643
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	HT: 9SHD212-GE1
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u> DATE: <u>18/07/09</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
4-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T381419

44997-J
PART NUMBER/NUMÉRO DE PIÈCE
510558

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 17-4 SOL ANN CF BAR
3-3/4 RD S/C 4'0" (48.0")
HEAT: 746H
ITEM: 510558
ASTM A564
Line Total: 150.36 LB

Specifications:
AMS 5643 V
UNS S17400
ASTM A388 S1
ASTM A564 T630 13
EN 10204 3.1
ASME SA564 T630 13
AMS 2303 F

CHEMICAL ANALYSIS

C	CB	CO	CR	CU	MN	MO	N
0.026	0.219	0.02	15.33	3.02	0.76	0.06	0.024
NI	P	S	SI	TA	TI	CBTA	
4.18	0.021	0.0139	0.58	0.005	0.002	0.2242	

RCPT: R470620

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

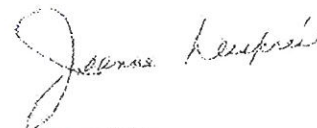
DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					321
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
DEV: H900 L	173.51	197.55	13.45	47.54	321

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Material did not come in contact with mercury while in our possession /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
4-JUL-2018

44997-J
PART NUMBER/NUMÉRO DE PIÈCE
510558

Invoice Number
T381419

SOLD TO: METAUX SOLUTIONS INC. SHIP TO:
VENDU À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)
2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 SOL ANN CF BAR
3-3/4 RD S/C 4'0" (48.0")
HEAT: 746H ITEM: 510558

ASTM A564
Line Total: 150.36 LB

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK
MICRO1: OK

COMMENTS

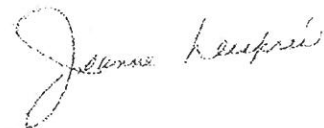
reduction ratio 5.3:1
melted and mfg in usa

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
SHAFT MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564

PART NUMBER: M17-4-XXXX-1 R X XXX WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E(m17-728)

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
B	REFORMAT DWG. S17400 TYPE 630 ADDED TO PURCHASE MATERIAL (ZN DB-1), ADD A564 SPEC (C8-1), REF. FIG. (C8-20A)	VS	10.05.20
A	NEW ISSUE	CP	05.03.15
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
SHEET 1 OF 1			
TITLE 17-4 SS ROUND BAR			
SCALE NTS			
COPYRIGHT © 2005 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H900-R3.750
 DATE: 18/07/09

PO / BATCH NO.: P0040263/5089915

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750"
 THICKNESS RECEIVED: 3.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	AMS 5643
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	M7: 746H
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/07/09</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
4-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44997-J

Invoice Number
T381420

PART NUMBER/NUMÉRO DE PIÈCE

508909

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 803 HR ANN RT BAR ASTM A582
5 RD S/C 3'0" (36.0") Line Total: 200.46 LB
HEAT: 754F ITEM: 508909

Specifications:
AMS 5640 TYPE 1 V
ASTM A484 16
ASTM A582 12
QQS 764B COND A
EN 10204 3.1B
ASTM A751 14A

CHEMICAL ANALYSIS

C	CO	CR	CU	MN	MO	N	NI
0.0360	0.12	17.07	0.27	1.89	0.289	0.038	8.46
P	S	SI					
0.03	0.2685	0.62					

RCPT: R450088

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	41.0	80.0	53.0	59.0	142

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

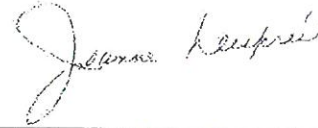
melted & mfg: usa
complies with requirements of dfar 252.225-7009.
eu directive 2011/65/eu rohs

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
4-JUL-2018

44997-J
PART NUMBER/NUMÉRO DE PIÈCE
508909

Invoice Number
T381420

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 303 HR ANN RT BAR
5 RD S/C 3'0" (36.0")

ASTM A582

HEAT: 754F

ITEM: 508909

Line Total: 200.46 LB

eaf+aod+cc

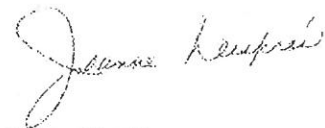
red ratio: 3.0:1

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

PART NUMBER:

ASTM A582
M303R0.000
DIA.

WHERE "0.000" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
2010-02-02
MD

B	REFORMAT (MFG. AND SPECS (ZK D8-1))	CP	10 01 05
A	NEW ISSUE	DS	01 12 20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD			
HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
SCALE NTS			
SHEET 1 OF 1			
REV. B			
COPYRIGHT © 2001 BY DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303RS.000
 DATE: 18/07/09

PO / BATCH NO.: P0040263/5089916

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.000"
 THICKNESS RECEIVED: 5.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Ar</u> DAS 38 9-88 DATE: <u>18/07/09</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
953978	3

BILL TO

MANIFEST NUMBER

SHIP TO

DIE NUMBER

DATE OF SHIPMENT

CERTIFICATION

CUSTOMER PO

ALLOY / TEMPER

SALESPERSON

CUSTOMER PART NUMBER

DESCRIPTION

D. Schroeder (Canada)

SPECIFICATION

Quantity Certified 1,066 lbs 5 pcs

ALREC00834

6061-T6511

6061-T6511

SAE AMS-QQ-A-200/8A Stabilized

RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests Lot No.

1

201811156

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
6/13/18	min 50.60 max 50.60	min 45.80 max 45.80	min 15.80 max 15.80

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Each	Total	Others	Melt Source:
001K180531B	201811156	6061	0.74	0.40	0.31	0.11	0.90	0.11	0.08	0.03	97.33	0.05	0.15		United States of America
001M180523B	201811156	6061	0.74	0.37	0.32	0.10	0.89	0.11	0.05	0.03	97.40	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 6/15/2018

Rev. 3/14/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061 T6/T651/T651/T62 ALUMINUM BAR

SPECIFICATION:
QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-05-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, AND ASTM B211/B221 (2ND-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	AS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B			
SHEET 1 OF 1			
TITLE 6061-T6 BAR			
SCALE NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD. 21-000-11			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B3.000x5.000
 DATE: 18/07/09

PO / BATCH NO.: 10040263/5089917

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.000"
 THICKNESS RECEIVED: 3.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	DATE	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	<u>38</u> 9-89	SIGNED OFF BY: _____
DATE: <u>18/07/09</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in